

#### ABSTRACT OF THE DISCLOSURE

The method relates to an engine with  $n$  cylinders. Fuel is injected in a predetermined order into the cylinders in a manner which is synchronized with the position of the pistons of the engine. The inventive method comprises the following steps after start-up: injection into  $m$  cylinders in a predetermined order of injection; measurement of engine speed and/or acceleration; continuation of injection in a predetermined order of injection if engine speed and/or acceleration exceed ( $s$ ) a predetermined threshold; continuation of injection with a delay in the event of the contrary. The invention can be used with respect to the start-up of a direct injection engine.